

PH 7321 prop.
OSA - 2040-64

Hand for Frank,
Jim file

17 April 1964

Attention:

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Dear Temp:

We are pleased to forward for your information and files one (1) copy of the "Memorandum of Understanding, Frank and Gregg Contractual Relationship".

It is to be noted this document is referenced under Item IX "Integration Responsibility" of the Statement of Work for the E-C Portion of GDR contained in your 23 March 1964 Request For Proposal.

Best Regards,

Jim

cc:

w/enclosure

THIS COPY FOR

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20 March 1964

"MEMORANDUM OF UNDERSTANDING,
FRANK AND GREGG CONTRACTUAL RELATIONSHIP"

The two associate contractors, Frank and Gregg, have separate and distinct responsibilities in providing equipment for the ground processing as set forth in the respective statements-of-work complex. However, the interface between the separately procured subsystems will be handled under the following division of responsibility:

I. MPC

1. Frank will furnish Gregg four (4) Shelters complying with Frank's specification SME-DS-36A, by the 15th day of June 1964, subject to the following:

- a. The final revision of SME-DS-36A, including layouts from the shelter manufacturer showing details of shelter construction will be supplied to Gregg by Frank before 6 March 1946.

A representative of Frank will be assigned to work with Gregg at Gregg's facility from 30 March 1964 to 6 April 1964, provided security requirements are satisfied.

- b. Delivery will then be made by Gregg to Frank of drawings showing all details peculiar to these shelters to the extent required by SME-DS-36A.

This data is required before the 6th of April 1964. Changes shall be kept to a minimum after that date.

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- c. Frank will review the drawings and incorporate the supplied data together with shelter common details into Specification SME-DS-36A and release the specification drawings to the shelter manufacturer by the 13th of April 1964, after review by Gregg.

Continuous transfer of information originating from Gregg relating to modifications of shelters XVII through XX, shall be effected from Frank to the shelter manufacturer before 13 April 1964.

- d. Prior to delivery of Gregg's shelters, personnel from both associates will inspect and accept these shelters as complying with the jointly agreed upon requirement as specified in SME-DS-36A at the shelter manufacturers facility.
- e. As specified in SME-DS-36A, the shelters will consist of the basic enclosure, operable air conditioners, interconnecting walkways, ancillary equipments such as cable slings, running gear, etc., and other details specified by Gregg in his drawings forming the specification. In addition, the following items shall also be supplied to Gregg by Frank for each MPC:
1. Intercom - 1 master and 3 slave units.
 2. ~~Eight (8)~~ ^{Four (4)} 60 cps, power cables from Utility Shelter to Shelters XVII through XX.
 3. Two (2) 400 cps power cables from Maintenance Shelter to Gregg's Shelters MF-1 and MF-4.

4. Fire extinguishers and mounting brackets, two per shelter.
5. Lighting for shelters, including dimmer controls.
6. The characteristics of the air conditioners to be used in Shelters XVII through XX shall be as delineated in SME-DS-37A, Revision I modified as follows:
 - a. The capacities listed in para. 3.5.2.1 are net cooling capacities.
 - b. The outline dimensions of the air conditioners do not exceed the dimensions shown in Airtemp div. - Chrysler Corp. Drawing #2546860 (15-3/4 inches deep, 44 inches wide, 86 inches high).

Based on these characteristics, two air conditioners are required per shelter.

2. Gregg will supply semi-final mounting and other installation data for the computer motor generator set and control equipment, which will be installed by Frank into the Maintenance Shelter, by the 28th February 1964. Final information, including acoustical and thermal information will be furnished by 10 March 1964.

3. The motor generator set and electrical control console will be furnished to Frank by Gregg by the 1st of August 1964.

4. Frank will ship the four EMR shelters to Gregg. After completion of work and MPC testing by Gregg, Frank will ship the shelters from Gregg's facility to the designated site for installation

within the subsystem complex. (See Item 5, below). Installation will be performed by Frank to the extent of locating the shelters at the site and connecting interface lines and external power cables. Gregg will install the internal cables and perform check-out and systems testing at the site.

5. Equipment will be shipped by Gregg to a site within 50 miles of Gregg's facility, after which it will be transported by Frank to the test site under cognizance of the SPO.

II. CPC - Fixed Base Subsystem

Frank will provide the facility for Gregg to extent defined herein for Gregg's equipment installation. The layout of Gregg's equipment area will be jointly coordinated to ensure satisfaction of joint requirements.

1. Frank will provide and install the facility limited to the following extent:

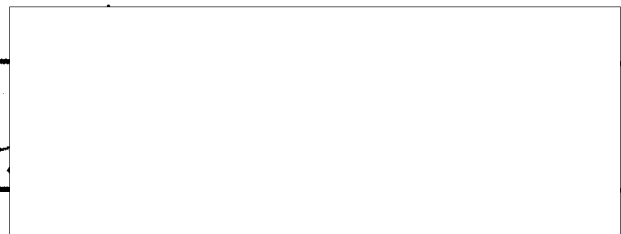
- a. A vinyl covered floor similar to the floor common to the entire complex.
- b. Partitions throughout the computer areas as defined by the control layout in Frank's facility, with concurrence by Gregg.
- c. Convenience outlets along the partitions as shown in the control layout.
- d. Standard furniture such as desks, chairs, file cabinets, drawing board, as indicated on the control layout, etc., not to include specialized furniture such as magnetic tape storage files, card files, and other computer service furniture.

- e. Lighting for the area including dimmer controls.
 - f. Conditioned air for equipment cooling and general room air conditioning. Frank will provide:
 - A. All external ducting (input and return) to room.
 - B. Thermostatic and humidistatic control to maintain $70 \pm 5^{\circ}\text{F}$ return air temperature and $50 \pm 5\%$ return air relative humidity. Gregg will provide air distribution within the room.
 - g. A main 60 cycle power line, conduit and junction box with several feet of cable protruding.
 - h. A 60 cycle power line, conduit and junction box located in the 400 cycle motor generator room.
 - i. A conduit and cable connecting the main 60 cycle power line junction box and the 400 cycle motor generator room.
 - j. A 400 cycle power line and conduit from the 400 cycle motor generator room to the computer room power junction box.
2. Gregg will provide and install (where applicable) the following:
- a. Any and all distribution boxes for the purpose of signal and power required by the equipment in the computer room (C-F area).
 - b. All cable runs within the room except those stated in paragraph II, 1.
 - c. The raised flooring required in the computer area and raised flooring required in the maintenance area.
 - d. All equipments required for the EMR operation including maintenance and test equipments.
 - e. Installation of all equipments within the responsible areas.
 - f. Checkout and systems tests of Gregg's system.
 - g. The dates for transmission of data from Gregg to Frank relating to the items in paragraph II, 1 above are as follows:
 - A. Complete air conditioning data - May 7, 1964.
 - B. Partition locations throughout the C-F area and convenience outlet locations - Nov. 30, 1964.
 - C. Standard furniture designation - Sept. 30, 1964.
 - D. Lighting and dimmer control requirements - Sept. 1, 1964.

Frank will proceed on existing information in Facility Design Report and latest information as of this date.

III. General

1. Gregg and Frank shall closely coordinate with each other on all pertinent aspects of this document in order to ensure compliance with the delivery schedules and other requirements herein.
2. A copy of the pertinent technical portions of the monthly progress reports submitted by Gregg and Frank to the SPO will be exchanged between associate contractors. Gregg's portion will be furnished Frank by the 10th day of each month.
3. Gregg and Frank shall furnish each other with copies of ECP's, ECN's, ECO's, etc., which may affect either contractor in any pertinent manner. Change notices pertinent to the SPO shall be forwarded concurrently to said activity for review, evaluation and comment. The foregoing shall not affect the timely submission of routine change notices between associate contractors.
4. In the event that Frank and Gregg are unable to reach agreement on any aspect affecting this effort, the SPO shall be notified of this situation. The SPO shall then render a decision.
5. Installation information supplied by Gregg to Frank relating to the Maintenance and Nav processing equipment for the first MPC will be preliminary in nature. All changes relating to this equipment shall be handled by ECP, per item III - 3 above, and approved by the SPO.



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